

```
(globals)
binary.c
1  #include<stdio.h>
2  int binarysearch(int array[],int x, int low, int high)
3  {
4  while(low<=high)
5  {
6  int mid= low+(high-low)/2;
7  if (array[mid]==x)
8  return mid;
9  if (array[mid]<x)
10 low=mid+1;
11 else
12 high=mid-1;
13 }
14 return -1;
15 }
16 int main (void)
17 {
18     int array[]={3,4,5,6,7,8,9};
19     int n=sizeof(array)/sizeof(array[0]);
20     int x=4;
21     int result=binarysearch(array,x,0,n-1);
22     if (result==-1)
23     printf ("not found");
24     else
25     printf ("element is found at the index %d",result);
26     return 0;
27 }
28 }
```

er (2) Resources Compile Log Debug Find Results Console Close

```
C:\Users\pran\\Desktop\sai\New folder\binary.exe
element is found at the index 1
-----
Process exited after 0.03342 seconds with return value 0
Press any key to continue . . .
```

DEV C++ C:\Users\prani\Desktop\sai\New folder\binary.c - [Executing] - Embarcadero Dev-C++

File C:\Users\prani\Desktop\sai\New folder\binary.exe

Element is found at the index 1

-----  
Process exited after 0.03342 seconds with return value 0  
Press any key to continue . . .



```
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7  if (array[mid]==x)
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```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\prani\Desktop\sai\New folder\binary.exe
- Output Size: 323.14453125 KiB
- Compilation Time: 0.39s
```